1000 U.S. P 10/051004

Docket No. END920010039US1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application: Ngai et al.

Group Art Unit:

: IBM Corporation

Examiner:

Intellectual Property Law

Serial No.:

: Dept. N50, Bldg. 040-4

Filed: Herewith

: 1701 North Street

: Endicott, NY 13760

Title:

DISTRIBUTED CONTROL STRATEGY FOR DYNAMICALLY ENCODING

MULTIPLE STREAMS OF VIDEO DATA IN PARALLEL FOR MULTIPLEXING ONTO A CONSTANT BIT RATE CHANNEL

Assistant Commissioner for Patents Washington, D.C. 20231

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

It is respectfully requested that the publications identified below and listed on the enclosed PTO-1449 Form(s) be considered by the United States Patent and Trademark Office (USPTO) in the subject United States patent application and be made of record therein. A copy of each publication is enclosed, and this submission is otherwise believed to be in compliance with 37 C.F.R. Sections 1.97 and 1.98. This information is all the material information, as defined in 37 C.F.R. Section 1.56(a), of which the submitter is aware. However, no representation is made or intended that a search has been made or that no other such material information exists.

PATENTS

- 1. 5,576,765 2. 5,854,658 3. 6,005,620 4. 6,040,861 5. 6,084,910 6. 6,118,823 6,167,084 WO 00/41397 EP 1005233A1 7. 8. 9.
- 10. JP 2000078577
- 11. "Structured Metadata for Application Specific Viewers for Streamed Internet Video/Audio", IBM Technical Disclosure Bulletin, Vol. 40, No. 10, October, 1997, pps. 123-127.

- 12. Mohsenian et al, pending U.S. patent application Serial No. 09/044,642, filed March 19, 1998, entitled "Real-Time Single Pass Variable Bit Rate Control Strategy And Encoder".
- 13. Boice et al., pending U.S. patent application Serial No. 09/046,118, filed March 20, 1998, entitled "Adaptive Encoding Of A Sequence Of Still Frames Or Partially Still Frames Within Motion Video".
- 14. Boroczky et al., pending U.S. patent application Serial No. 09/087,603, filed May 29, 1998, entitled "Control Strategy For Dynamically Encoding Multiple Streams Of Video Data In Parallel For Multiplexing Onto A Constant Bit Rate Channel".
- 15. Boroczky et al., pending U.S. patent application Serial No. 09/225,193, filed January 5, 1999, entitled "Adaptively Encoding Multiple Streams Of Video Data In Parallel For Multiplexing Onto A Constant Bit Rate Channel".
- 16. "Statistical Multiplexing Using MPEG-2 Video Encoders", by L. Boroczky, A.Y. Ngai, E.F. Westermann, Journal of Research and Development, Vol. 43, No. 4, July 1999, pps. 510-520.

None of the above-cited publications, taken singularly or in combination, teach or suggest the invention as defined by the claims provided in the instant application.

Respectfully submitted,

Dated: <u>July 05</u>, 2001

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By: Kevin P. Radigan Esq.

Reg. No. 31,789

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				U.S	S. PATENT	DOCUMENTS		_	1.00		
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	AA	5,576	6,765	11/19/96	Cheney	Cheney et al.		407			
	АВ	5,854	4,658	12/29/98	Uz et al.	10	348	419			
	AC	6,005	5,620	12/21/99	Yang et	Yang et al.		385	·		
	AD	6,040	0,861	03/21/00	Boroczl	Boroczky et al.		409			
	AE	6,084	4,910	07/04/00	Stanger	Stanger et al.		240			
	AF	6,118	8,823	09/12/00	Carr et al.		375	240.28			
	AG	6,167	7,084	12/26/00	Wang et al.		375	240.02			
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		<u> </u>	DOCUMENT NUMBER	DATE		COUNTRY	CLASS	SUBCLASS	TRANSI YES	NO NO	
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	AI	EP 1	1005233A1	05/31/00	Europe		HO4N	7/50			
· · · ·	AJ	JP 20	000078577	03/14/00	Japan		HO4N	7/24			
	<u> </u>	<u> </u>									
<u></u>			OTHER DOCUMEN	•	•	r, Title, Date, Pertinent I	•	•			
]	IBM Technical Disclosur	re Bulletin, Vol.	40, No. 10	0, October, 1997, "Structu 7	red Metada	ta for Applicati	on Specific	c Viewers	
		AK I	10r Streamed Internet	Ideo/Audio , Pr	S. 120-12.						
	├		Mohsenian et al. pendin	g U.S. patent ap	plication	Serial No. 09/044,642, filed	March 19,	1998, entitled "	Real-Time	e Single	
	Mohsenian et al. pending U.S. patent application Serial No. 09/044,642, filed March 19, 1998, entitled "Real-Time Pass Variable Bit Rate Control Strategy And Encoder"										
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			OTHER DOCUMEN	•	Author, Title, Date, Per	_	•				
		AM	Boice et al., pending U.S A Sequence Of Still Fra								
		AN	Boroczky et al., pending Dynamically Encoding N	U.S. patent applicate Multiple Streams Of	tion Serial No. 09/087,60 Video Data In Parallel	i3, filed May 29, 199 For Multiplexing O	98, entitled "Co into A Constant	ntrol Strate Bit Rate C	egy For 'hannel"		
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123	NO								
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	ivolv								
Encoding Multiple Streams Of Video Data In Parallel For Multiplexing Onto A Constant Bit Rate Channel	"Boroczky et al., pending U.S. patent application Serial No. 09/225,193, filed January 5, 1999, entitled "Adaptively Encoding Multiple Streams Of Video Data In Parallel For Multiplexing Onto A Constant Bit Rate Channel"								
"Statistical Multiplexing Using MPEG-2 Video Encoders", by L. Boroczky, A.Y. Ngai, E.F. Westermann, Journal Research and Development, Vol. 43, No. 4, July 1999, pgs. 510-520	"Statistical Multiplexing Using MPEG-2 Video Encoders", by L. Boroczky, A.Y. Ngai, E.F. Westermann, Journal of Research and Development, Vol. 43, No. 4, July 1999, pgs. 510-520								
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